

ABSTRACT

New polymers, compositions comprising these polymers, and methods of using these compositions are provided. The polymers comprise styrene and maleic anhydride monomers with at least some of the maleic anhydride monomers having certain functional groups bonded thereto. Preferred functional groups include those derived from adhesion promoters (e.g., 2-aminophenol), photoinitiators (e.g., 4-aminoacetophenone), and solubilizers (e.g., 4-aminobenzoic acid). The polymers can be incorporated according to conventional processes into compositions which are then used to form a color filter to be used in a liquid crystal display. The final color filter has a high resolution, is highly resistant to solvents typically used in the color filter manufacturing process, is strongly adhered to the color filter substrate, has superior optical clarity, is highly soluble in a wide range of alkali developers, and has excellent heat and UV light stability.

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